AMENDMENTS TO THE SPECIFICATION

Please amend the section entitled "Summary of the invention" beginning on page 2,

line 21, as follows:

In one aspect, the present invention provides a steaming device for a baker's oven

including:

a covered steam generation chamber, located adjacent at least one heating element in

an oven compartment of the baker's oven, the covered steam generation chamber being closed

at one end and having at least one steam outlet at or adjacent the other end;

at least one heat sink member in the covered steam generation chamber to provide a

heat source to convert steaming water introduced into the <u>covered</u> steam generation chamber

into steam; and

a steaming water pipe having at least one nozzle operable to direct water into the

covered steam generation chamber, the steaming water being convertible into

steam within the covered steam generation chamber and releasable to the oven compartment

through the at least one steam outlet.

In a preferred form of the invention, the covered steam generation chamber is an

elongate chamber adjacent to at least one elongate heating chamber containing at least one

heating element. The steam generation chamber is separated from the at least one heating

chamber by a dividing wall.

The heating chamber may have one or more heat outlets to enable the transfer of the

heat generated by the heating element(s) to the oven compartment.

Preferably, the or each heat sink member is a strip of bar of metal, eg., mild steel,

having a thermal mass sufficient to maintain the temperature within the oven compartment

within a prescribed temperature range when the steaming water is introduced into the

steaming compartment and converted to steam.

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In the operation of the steaming apparatus of the invention, the heat sink members are

heated by heat transferred from the heating rods in the heating chamber to the steam chamber.

The water for steaming is introduced into the steam chamber by a water pipe, preferably

located at or adjacent the closed end of the steam chamber. The water pipe is preferably

positioned towards the front of the oven compartment and extends transversely of the

steaming chamber. The steaming water enters the steaming chamber at or adjacent the closed

end and the water and generated steam progress down the steaming chamber and exit the

steam chamber at the at least one steam outlet. Generally all of the steaming water is

converted to steam by heat from the ballast bar before the water has travelled three quarters

of the length of the steaming chamber and preferably within one half to three quarters of the

length of the heating element.

The steam element preferably directs the steam into the oven compartment into a zone

(or zones) at the rear of the oven and away from direct contact with an ceramic surfaces. This

zone or zones may be above the bakery products.

As steam is only needed in the production of about 20% of a typical bakery's

products, the oven needs to be used in non steaming mode most of the time. Accordingly,

ovens provided with internal steaming devices must be able to allow heat to dissipate freely

and evenly from the heating rods throughout the oven.

Accordingly it is preferable that the heating chamber be provided with a plurality of

heating outlets along the length of the heating chamber. The plurality of heating outlets are

preferably provided in the side of the heating chamber to prevent the outlets being blocked by

product debris falling onto the heating chamber.

In a second aspect, the present invention provides a baker's oven having at least one

oven compartment, the oven compartment being heated by a plurality of parallel heating rods

arranged across the width of the oven compartment, at least one parallel heating section of the

heating rod being provided with a steaming device comprising a covered steam generation

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chamber adjacent the at least one heating element, the covered steam generation chamber

being closed at one end and having at least one steam outlet at or adjacent the other end; the

covered steam generation chamber being provided with at least one heat sink member to

provide a heat source to convert steaming water introduced into the covered steam generation

chamber into steam; and a steaming water pipe having at least one nozzle operable to direct

water into the covered steam generation chamber, the steaming water being converted into

steam within the steam generation chamber and being released to the oven compartment

through the at least one steam outlet.

Preferably, the baker's oven is of the rotary type, having one or two oven

compartments provided on one or more, eg., three, four or five levels.

In a third aspect, the present invention resides in a steaming method for bakers' ovens

including the steps of:

providing a covered steam generation chamber adjacent at least one heating element

in an oven compartment of a baker's oven, the steam generation chamber being closed at one

end and having at least one steam outlet at or adjacent the other end;

introducing a controlled volume of water into the steam generation chamber at or

adjacent the one end;

converting the water into steam within the steam generation chamber; and

releasing the steam from the covered steam generation chamber through the steam

outlet(s) into the oven compartment.

In a preferred form of the invention, the steam outlet is towards the rear of the

compartment away from any ceramic surfaces in the oven and the steaming water is

introduced through a water pipe which extends transversely of the covered steam generation

chamber. More than one steam generation chamber may be provided in the oven adjacent a

respective heating element, preferably a parallel section heating element which extends from

the vicinity of the front of the oven towards the rear.

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